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- ☐ 1. **Tactile access for blind people to virtual reality on the World Wide Web**
Hardwick, A.; Furner, S.; Rush, J.;
Developments in Tactile Displays (Digest No. 1997/012), IEE Colloquium on
21 Jan. 1997 Page(s):9/1 - 9/3
[AbstractPlus](#) | Full Text: [PDF](#)(232 KB) IEE CNF
- ☐ 2. **Inexpensive tactile interaction for blind computer users: two application**
Petrie, H.; Johnson, V.; McNally, P.; Morley, S.; O'Neill, A.-M.; Majoe, D.;
Developments in Tactile Displays (Digest No. 1997/012), IEE Colloquium on
21 Jan. 1997 Page(s):2/1 - 2/3
[AbstractPlus](#) | Full Text: [PDF](#)(220 KB) IEE CNF
- ☐ 3. **Direct Web switch routing with state migration, TCP masquerade, and co-rewriting**
Ying-Dar Lin; Ping-Tsai Tsai; Po-Ching Lin; Ching-Ming Tien;
Global Telecommunications Conference, 2003. GLOBECOM '03. IEEE
Volume 7, 1-5 Dec. 2003 Page(s):3663 - 3667 vol.7
Digital Object Identifier 10.1109/GLOCOM.2003.1258917
[AbstractPlus](#) | Full Text: [PDF](#)(438 KB) IEE CNF
- ☐ 4. **Proceedings EC-VIP-MC 2003. 4th EURASIP Conference focused on Video Processing and Multimedia Communications (IEEE Cat. No.03EX667)**
Video/Image Processing and Multimedia Communications, 2003. 4th EURASIP focused on
Volume 1, 2-5 July 2003
Digital Object Identifier 10.1109/VIPMC.2003.1220436
[AbstractPlus](#) | Full Text: [PDF](#)(416 KB) IEE CNF
- ☐ 5. **A blind and readable watermarking technique for color images**
Caramma, M.; Lancini, R.; Mapelli, F.; Tubaro, S.;
Image Processing, 2000. Proceedings. 2000 International Conference on
Volume 1, 10-13 Sept. 2000 Page(s):442 - 445 vol.1
Digital Object Identifier 10.1109/ICIP.2000.900990
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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [A Web navigation tool for the blind](#)

Mary Zajicek, Chris Powell, Chris Reeves

January 1998 **Proceedings of the third international ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available: txt(11.04 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** HTML, World Wide Web, blind, browser, information retrieval**2** [Web accessibility: Navigation of HTML tables, frames, and XML fragments](#)

E. Pontelli, D. Gillan, W. Xiong, E. Saad, G. Gupta, A. I. Karshmer

July 2002 **Proceedings of the fifth international ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available: pdf(917.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we provide a progress report on the development of technology to support the non-visual navigation of complex HTML and XML structures.

Keywords: Web Accessibility, visually impaired users**3** [Engineering client systems: What's the web like if you can't see it?](#)

Chieko Asakawa

May 2005 **Proceedings of the 2005 International Cross-Disciplinary Workshop on Web Accessibility (W4A) W4A '05**

Publisher: ACM Press

Full text available: pdf(252.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Awareness of Web accessibility is spreading all over the world among Web designers and developers, due to regulations such as the US law called Section 508 and guidelines like the W3C WCAG. We now see various Web accessibility adaptations on the Web. For example, we see increasing use of alternative texts for images and skip-navigation links for speed. However, we sometimes find inappropriate ALT texts and broken skip-navigation links, even though they are present. These pages may be compliant, b ...

Keywords: blind, non-visual, screen reader, voice browser, web accessibility

4 Guidelines: Designing search engine user interfaces for the visually impaired



Barbara Leporini, Patrizia Andronico, Marina Buzzi

May 2004 **Proceedings of the 2004 international cross-disciplinary workshop on Web accessibility (W4A) W4A '04**

Publisher: ACM Press

Full text available: pdf(500.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Search engines are a fundamental tool for retrieving specific and appropriate information on the Internet; for this reason it is essential for any user to be able to interact with simple, clear and accessible interfaces. In this paper we describe the main design issues affecting the user interface of a search engine when a sightless user interacts by means of a screen reader or voice synthesizer. In particular, the most important differences between a visual layout and aural perception are discussed ...

Keywords: Internet, accessibility, search engine, usability, user interface design, web navigation

5 Accessibility designer: visualizing usability for the blind



Hironobu Takagi, Chieko Asakawa, Kentarou Fukuda, Junji Maeda

September 2003 **ACM SIGACCESS Accessibility and Computing , Proceedings of the 6th international ACM SIGACCESS conference on Computers and accessibility Assets '04**, Issue 77-78

Publisher: ACM Press

Full text available: pdf(1.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

These days, accessibility-related regulations and guidelines have been accelerating the improvement of Web accessibility. One of the accelerating factors is the development and deployment of accessibility evaluation tools for authoring time and repair time. They mainly focus on creating compliant Web sites by analyzing the HTML syntax of pages, and report that pages are compliant when there are no syntactical errors. However, such compliant pages are often not truly usable by blind users. This ...

Keywords: accessibility, accessibility checker, blind, visually impaired, voice usability

6 Web accessibility: Web accessibility for low bandwidth input



Jennifer Mankoff, Anind Dey, Udit Batra, Melody Moore

July 2002 **Proceedings of the fifth international ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available: pdf(1.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One of the first, most common, and most useful applications that today's computer users access is the World Wide Web (web). One population of users for whom the web is especially important is those with motor disabilities, because it may enable them to do things that they might not otherwise be able to do: shopping; getting an education; running a business. This is particularly important for low bandwidth users: users with such limited motor and speech that they can only produce one or two signals ...

Keywords: WWW, low bandwidth input, motor impairment, web proxy

7 A semantic transcoding system to adapt Web services for users with disabilities



Anita W. Huang, Neel Sundaresan

November 2000 **Proceedings of the fourth international ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available: pdf(154.74 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Web accessibility, Web intermediaries, XML transcoding, adaptability, adaptivity, disabled users



✓ 8

WAB: World Wide Web access for blind and visually impaired computer users



Andrea Kennel, Louis Pérochon, Alireza Darvishi

June 1996 **ACM SIGCAPH Computers and the Physically Handicapped**, Issue 55

Publisher: ACM Press

Full text available: pdf(355.22 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A blind or visually impaired user can get lost in hyperspace on one single W3-page. This paper presents Web Access for Blind users (WAB), a working system which makes web-surfing easier for blind persons. Normally, structure and meta information in HTML documents are displayed visually and are difficult for blind users to recognize. WAB transforms structure and meta information into a form that can be more easily read by visually handicapped people. Titles, links and form elements are described ...

Keywords: WWW, W3, blindness and visual impairment, document structure and formats, proxy Servers, screen reader, user interfaces



9 Late breaking results: posters: Proposing new metrics to evaluate web usability for the blind



Kentarou Fukuda, Shin Saito, Hironobu Takagi, Chieko Asakawa

April 2005 **CHI '05 extended abstracts on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(91.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Accessibility-related regulations and guidelines are contributing to the steady improvement of Web accessibility. There are various accessibility evaluation tools, and they also help Web authors make their pages compliant with guidelines. As a result, an increasing number of Web pages are compliant with the evaluation tools. These days, however, blind people face the serious problem that reading Web pages is quite difficult. Improvements in information density by using visual effects such as two ...

Keywords: blind, voice usability, web accessibility



10 Aurora: a conceptual model for Web-content adaptation to support the universal usability of Web-based services



Anita W. Huang, Neel Sundaresan

November 2000 **Proceedings on the 2000 conference on Universal Usability**

Publisher: ACM Press

Full text available: pdf(804.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Users of the World Wide Web (Web) have a diverse set of needs, abilities, and goals. To achieve universal usability, the Web today calls for the development of new systems that enable the same content to be adapted for display according to these various needs. This paper presents Aurora, an extensible transcoding system that targets and adapts content in existing Web pages to help the broadest population of users, particularly in the disabled community, to obtain various Web-based services, s ...

Keywords: Web accessibility, Web intermediaries, XML transcoding, adaptability, disabled users

11 Usability and accessibility: Web accessibility: a broader view



John T. Richards, Vicki L. Hanson

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(905.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web accessibility is an important goal. However, most approaches to its attainment are based on unrealistic economic models in which Web content developers are required to spend too much for which they receive too little. We believe this situation is due, in part, to the overly narrow definitions given both to those who stand to benefit from enhanced access to the Web and what is meant by this enhanced access. In this paper, we take a broader view, discussing a complementary approach that costs ...

Keywords: standards, user interface, web accessibility

12 Audio enriched links: web page previews for blind users



Peter Parente

September 2003 **ACM SIGACCESS Accessibility and Computing , Proceedings of the 6th international ACM SIGACCESS conference on Computers and accessibility Assets '04**, Issue 77-78

Publisher: ACM Press

Full text available: pdf(229.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Audio Enriched Links provide previews of linked web pages to users with visual impairments. Before a user follows a hyperlink, the Audio Enriched Links software presents a spoken summary of the next page including its title, its relation to the current page, statistics about its content, and some highlights from its content. We believe that such a summary may be a useful surrogate for a full web page, and help users with visual impairments decide whether or not to spend time visiting a linked ...

Keywords: accessibility, speech preview, visual impairment, web page preview

13 Late breaking results: overcoming human limitations: User interface of a nonvisual table navigation method



Chieko Asakawa, Takashi Itoh

May 1999 **CHI '99 extended abstracts on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(196.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

It is fervently hoped that the World Wide Web will become a new information resource for the blind. However, although the use of tables on the Web has been increasing, the currently available talking Web browsers basically read tables horizontally, making it very hard for blind users to understand them. We therefore propose a method that allows

users to navigate through a table both horizontally and vertically. Our method is characterized by three features: a table cursor, a table pointer, and a ...

Keywords: blind, nonvisual, table, talking browser, web

14 Auditory navigation in hyperspace: design and evaluation of a non-visual hypermedia



system for blind users

Sarah Morley, Helen Petrie, Anne-Marie O'Neill, Peter McNally

January 1998 **Proceedings of the third international ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available: [txt\(35.90 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: auditory navigation of hypermedia, blind and visually impaired users, evaluation methodology, non-speech sounds, non-visual interface design

15 Text analysis and extraction: Topic segmentation of message hierarchies for indexing



and navigation support

Jong Wook Kim, K. Selçuk Candan, Mehmet E. Dönderler

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Publisher: ACM Press

Full text available: [pdf\(333.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Message hierarchies in web discussion boards grow with new postings. Threads of messages evolve as new postings focus within or diverge from the original themes of the threads. Thus, just by investigating the subject headings or contents of earlier postings in a message thread, one may not be able to guess the contents of the later postings. The resulting navigation problem is further compounded for blind users who need the help of a screen reader program that can provide only a *linear* re ...

Keywords: assistive technology for blind users, discussion boards, navigational aid, segmentation

16 Semantic bookmarking for non-visual web access



Saikat Mukherjee, I. V. Ramakrishnan, Michael Kifer

September 2003 **ACM SIGACCESS Accessibility and Computing , Proceedings of the 6th international ACM SIGACCESS conference on Computers and accessibility Assets '04**, Issue 77-78


Publisher: ACM Press

Full text available: [pdf\(344.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Bookmarks are shortcuts that enable quick access of the desired Web content. They have become a standard feature in any browser and recent studies have shown that they can be very useful for non-visual Web access as well. Current bookmarking techniques in assistive Web browsers are rigidly tied to the structure of Web pages. Consequently they are susceptible to even slight changes in the structure of Web pages. In this paper we propose *semantic bookmarking* for non-visual Web ac ...

Keywords: assistive browsing, bookmarks, semantic partitioning

17 Haptic virtual reality for blind computer users

 Chetz Colwell, Helen Petrie, Diana Kornbrot, Andrew Hardwick, Stephen Furner
January 1998 **Proceedings of the third international ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available:  [txt\(36.40 KB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

Keywords: World Wide Web, blind users, haptic device, perception of virtual textures and objects, virtual environments

18 Papers: The design of auditory user interfaces for blind users

 Hilko Donker, Palle Klante, Peter Gorny
October 2002 **Proceedings of the second Nordic conference on Human-computer interaction NordiCHI '02**


Publisher: ACM Press

Full text available:  [pdf\(3.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Previous screen readers provide blind WWW-users only with the textual contents of the web pages, but exclude the access to important information coded in the layout of web pages. The approach we introduce here shall overcome the layout barrier of webpages with the help of three-dimensionally auditory objects ("hearcons") which are positioned in an auditory interaction realm (AIR). The elements of a webpage are reproduced in the AIR by a reference model ("torch metaphor"). In a first detailed inve ...

Keywords: accessibility, accessible internet, auditory interaction objects, barrier free GUI, binaural perception, blind users, spatialized sounds, visually impaired users

19 Annotation-based transcoding for nonvisual web access

 Chieko Asakawa, Hironobu Takagi
November 2000 **Proceedings of the fourth international ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available:  [pdf\(451.21 KB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

Keywords: blind, commentary annotation, nonvisual web access, structural annotation, transcoding system

20 Learning technologies: Modeling educational software for people with disabilities: theory and practice

 Nelson Baloian, Wolfram Luther, Jaime Sánchez
July 2002 **Proceedings of the fifth international ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available:  [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interactive multimedia learning systems are not suitable for people with disabilities. They tend to propose interfaces which are not accessible for learners with vision or auditory disabilities. Modeling techniques are necessary to map real world experiences to virtual worlds by using 3D auditory representations of objects for blind people and visual

representations for deaf people. In this paper we describe common aspects and differences in the process of modeling the real world for application ...

Keywords: modeling methodologies, sensory disabilities, tutoring systems, user adapted interfaces

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